	Application No.	Applicant(s)
	09/545,182	LIAO ET AL.
Notice of Allowability	Examiner	Art Unit
	Daniel Pan	2183
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. $\boxtimes$ This communication is responsive to <u>the amendment filed</u>	on 09/07/04.	
2. A The allowed claim(s) is/are 20-22,24-28 (claims 1-19, 23	have been canceled).	
3. The drawings filed on <u>07 April 2000</u> are accepted by the Es	xaminer.	
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority ur <ul> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>4.  Certified copies not received:</li> </ul> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5.  A SUBSTITUTE OATH OR DECLARATION must be submained in Informal Patent Application (PTO-152) which gives</li> <li>6.  CORRECTED DRAWINGS (as "replacement sheets") must (a)  including changes required by the Notice of Draftspers</li> <li>1)  hereto or 2)  to Paper No./Mail Date</li> <li>(b)  including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the proper notation of the priority documents and the deponant of the priority documents and the priority documents and the priority documents and the priority documents and the priority documents have a priority documents and the priority documents have a p</li></li></ul>	e been received. e been received in Application No cuments have been received in this of this communication to file a reply filent of this application.  iitted. Note the attached EXAMINER es reason(s) why the oath or declara st be submitted. son's Patent Drawing Review ( PTO s Amendment / Comment or in the C . 84(c)) should be written on the drawi he header according to 37 CFR 1.121( sit of BIOLOGICAL MATERIAL i	national stage application from the complying with the requirements  A'S AMENDMENT or NOTICE OF ation is deficient.  -948) attached  Office action of ings in the front (not the back) of (d).  must be submitted. Note the
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 98), 7. ☐ Examiner's Amend	ite

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Reasons for Allowance

Based on the prior art of record and the terminal disclaimer, the following are the reasons for allowance.

None of the prior art or record teaches:

a) the combined features of the 0-5 bits encoding of the primary op code of 4, the 6-10 bits designating the floating point register for storing the 32 bit pair single precision value resulting from the paired of single floating point add instruction, the bits 11-15 designation of source register storing the pair floating values, the 16-20 bits floating point source register for the storage of the pair of 32 bit single precision values, the 21-25 bits encoding of reserved field of "0's", and a secondary op code 21, and the bit 31 for updating the condition register (claim 20 for the processor, claim 25 for the storage medium);

b) the combined features of the pair of single scalar vector multiply add high instruction wherein the high order was used as scalar, the 0-5 bit encoding of primary op code of 4, the bits 6-10 designation of destination register for the result, the 11-15 designation of first floating point as the source for the first pair single precision, the 16-20 designation of the second floating point, the 21-25 as the third source pair of the 32 bit single precision, the 26-30 bits of the encoded secondary op code of 14 and bit 31 for the updating of the condition register (claim 21 for the processor, claim 26 for the storage medium);

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c) the combined features of the combined features of the pair of single scalar vector multiply add low instruction wherein the low order was used as scalar, the 0-5 bit encoding of primary op code of 4, the bits 6-10 designation of destination register for the result, the 11-15 designation of first floating point as the source for the first pair single precision, the 16-20 designation of the second floating point, the 21-25 as the third source pair of the 32 bit single precision, the 26-30 bits of the encoded secondary op code of 14 and bit 31 for the updating of the condition register (claim 22 for the processor, claim 27 for the storage medium);

d) the decoding of the 32 bit paired of single floating point add instruction, the 0-5 bits of the encoding of the primary op code of 4, the 6-10 bits designation of floating point destination register for the 32 bit single precision resulting from the paired of add instruction, the 11-15 bits designation of floating point source register storing the 32 bit single precision floating point, the 16-20 bots designation of the source register, the 21-25 bits encoding of reserved field, the 26-30 encoding secondary op code of 21 and bit 31 of the updating of condition register, the specific bit designations for the floating point values for the 32 bit paired of single precision scalar vector multiply add high and low instructions (claim 24 for the decoder, claim 28 for the storage medium).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dan Pan whose telephone number is 703 305 9696, or the new number 571 272 4172. The examiner can normally be reached on M-F from 8:30 AM to 4:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chan, can be reached on 703 305 9712, or the new number 571 272 4162. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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